Tathastu Scholar Program

AI Voice Based Assistant using Python

Task:2

import speech\_recognition as sr

import pyttsx3

import pywhatkit

import datetime

import wikipedia

import pyjokes

import sys

import webbrowser

from datetime import date

engine=pyttsx3.init()

engine.setProperty("rate", 150)

voices = engine.getProperty("voices")

engine.setProperty('voice', voices [1].id)

recognizer=sr.Recognizer()

def engine\_talk(text):

engine.say(text)

engine.runAndWait()

def run\_alexa():

with sr.Microphone() as source:

recognizer.adjust\_for\_ambient\_noise(source,duration=1)

print('\n')

print("Start Speaking!!")

engine\_talk('listening.. ')

recordedaudio=recognizer.listen(source)

try:

command=recognizer.recognize\_google(recordedaudio,language='en-in')

command = command.lower()

if 'alexa' in command :

command = command.replace('alexa', '')

print('you said'+command)

else :

print('you said : '+command)

if 'hello'

in command :

print('hello how can i helpp you ??')

engine\_talk('hello, how can i help you ??')

elif 'who are you' in command :

print('I am mini alexa a k a your virtual assistant master')

engine\_talk('I am mini alexa a k a your virtual assistant master. how can i help you ??')

elif 'can you do' in command :

print('''i can play songs on youtube , tell you a joke, search on wikipedia, tell date and time,find your location, locate area on map,

open different websites like instagram, youtube,gmail, git hub, stack overflow and searches on google.How may i help you ??''')

engine\_talk('''i can play songs on youtube , tell you a joke, search on wikipedia, tell date and time,find your location, locate area on map,

open different websites like insta gram, youtube,gmail, git hub, stack overflow and searches on google. How may i help you ??''')

elif 'play' in command:

song = command.replace('play', '')

print('Playing' +song)

engine\_talk('Playing' +song)

pywhatkit.playonyt(song)

elif 'date and time' in command :

today = date.today()

time = datetime.datetime.now().strftime('%I:%M %p')

# Textual month, day and year

d2 = today.strftime("%B %d, %Y")

print("Today's Date is ", d2, 'Current time is', time)

engine\_talk('Today is : '+ d2)

engine\_talk('and current time is '+ time)

elif 'time and date' in command :

today = date.today()

time = datetime.datetime.now().strftime('%I:%M %p')

# Textual month, day and year

d2 = today.strftime("%B %d, %Y")

print("Today's Date is ", d2, 'Current time is', time)

engine\_talk( 'Current time is '+ time)

engine\_talk('and Today is : '+ d2)

elif 'time' in command:

time = datetime.datetime.now().strftime('%I:%M %p')

print('The current time is' +time)

engine\_talk('The current time is')

engine\_talk(time)

elif 'date' in command:

today = date.today()

print("Today's date:", today)

# Textual month, day and year

d2 = today.strftime("%B %d, %Y")

print("Today's Date is ", d2)

engine\_talk('The todays date is')

engine\_talk(d2)

elif 'tell me about' in command:

name = command.replace('tell me about' , '')

info =

wikipedia.summary(name, 1)

print(info)

engine\_talk(info)

elif 'wikipedia' in command:

name = command.replace('wikipedia' , '')

info =

wikipedia.summary(name, 1)

print(info)

engine\_talk(info)

elif 'what is' in command:

name = command.replace('what is ' , '')

info =

wikipedia.summary(name, 1)

print(info)

engine\_talk(info)

elif 'who is ' in command:

name = command.replace('who is' , '')

info =

wikipedia.summary(name, 1)

print(info)

engine\_talk(info)

elif 'what is ' in command :

search = 'https://www.google.com/search?q='+command

print(' Here is what i found on the internet..')

engine\_talk('searching... Here is what i found on the internet..')

webbrowser.open(search)

elif 'joke' in command:

\_joke = pyjokes.get\_joke()

print(\_joke)

engine\_talk(\_joke)

elif 'search' in command :

search = 'https://www.google.com/search?q='+command

engine\_talk('searching... ')

webbrowser.open(search)

elif "my location" in command:

url = "https://www.google.com/maps/search/Where+am+I+?/"

webbrowser.get().open(url)

engine\_talk("You must be somewhere near here, as per Google maps")

elif 'locate ' in command :

engine\_talk('locating ...')

loc =

command.replace('locate', '')

if 'on map' in loc :

loc= loc.replace('on map',' ')

url = 'https://google.nl/maps/place/'+loc+'/&amp;'

webbrowser.get().open(url)

print('Here is the location of '+loc)

engine\_talk('Here is the location of '+loc)

elif 'on map' in command :

engine\_talk('locating ...')

loc = command.split(" ")

print(loc[1])

url = 'https://google.nl/maps/place/'+loc[1] +'/&amp;'

webbrowser.get().open(url)

print('Here is the location of '+loc[1])

engine\_talk('Here is the location of '+loc[1])

elif 'location of' in command :

engine\_talk('locating ...')

loc =

command.replace('find location of', '')

url = 'https://google.nl/maps/place/'+loc+'/&amp;'

webbrowser.get().open(url)

print('Here is the location of '+loc)

engine\_talk('Here is the location of '+loc)

elif 'where is ' in command :

engine\_talk('locating ...')

loc =

command.replace('where is', '')

url = 'https://google.nl/maps/place/'+loc+'/&amp;'

webbrowser.get().open(url)

print('Here is the location of '+loc)

engine\_talk('Here is the location of '+loc)

elif 'bootcamps' in command :

search = 'http://tathastu.twowaits.in/index.html#courses'

engine\_talk('opening boot camps')

webbrowser.open(search)

elif 'boot camps' in command :

search = 'http://tathastu.twowaits.in/index.html#courses'

engine\_talk('opening boot camps')

webbrowser.open(search)

elif 'python bootcamp' in command :

search = 'http://tathastu.twowaits.in/kickstart\_python.html'

engine\_talk('showing pythonboot camp')

webbrowser.open(search)

elif 'data science bootcamp' in command :

search = 'http://tathastu.twowaits.in/kickstart\_data\_science.html'

engine\_talk('showing data science and ml bootcamp')

webbrowser.open(search)

elif 'open google' in command :

print('opening google ...')

engine\_talk('opening google..')

webbrowser.open\_new('https://www.google.co.in/')

elif 'gmail' in command :

print('opening gmail ...')

engine\_talk('opening gmail..')

webbrowser.open\_new('https://mail.google.com/')

elif 'open youtube' in command :

print('opening you tube ...')

engine\_talk('opening you tube..')

webbrowser.open\_new('https://www.youtube.com/')

elif 'open instagram' in command :

print('opening instagram ...')

engine\_talk('opening insta gram...')

webbrowser.open\_new('https://www.instagram.com/')

elif 'open stack overflow' in command :

print('opening stackoverflow ...')

engine\_talk('opening stack overflow...')

webbrowser.open\_new('https://stackoverflow.com/')

elif 'open github' in command :

print('opening git hub ...')

engine\_talk('opening git hub...')

webbrowser.open\_new('https://github.com/')

elif 'bye' in command:

print('good bye, have a nice day !!')

engine\_talk('good bye, have a nice day !!')

sys.exit()

elif 'thank you' in command :

print("your welcome")

engine\_talk('your welcome')

elif 'stop' in command:

print('good bye, have a nice day !!')

engine\_talk('good bye, have a nice day !!')

sys.exit()

elif 'tata' in command:

print('good bye, have a nice day !!')

engine\_talk('good bye, have a nice day !!')

sys.exit()

else:

print(' Here is what i found on the internet..')

engine\_talk('Here is what i found on the internet..')

search = 'https://www.google.com/search?q='+command

webbrowser.open(search)

except Exception as ex:

print(ex)

print('Clearing background noise...Please wait')

engine\_talk('Clearing background noise...Please wait')

print('\n')

print("hello, i am mini alexa how can i help you ??")

engine\_talk ("hello i am mini alexa how can i help you ")

while True:

run alexa()

OUTPUT:

Clearing background noise...Please wait

hello, i am mini alexa how can i help you

Start Speaking! !

Start Speaking! !

Start Speaking! !

you said : thank you

your welcome

Start Speaking! !

you said : bye bye

good bye, have a nice day !!